Unit 2 Creating Systems to Manage Information 2019

BTEC

Level 3 National in Information Technology

Additional Sample Assessment Material

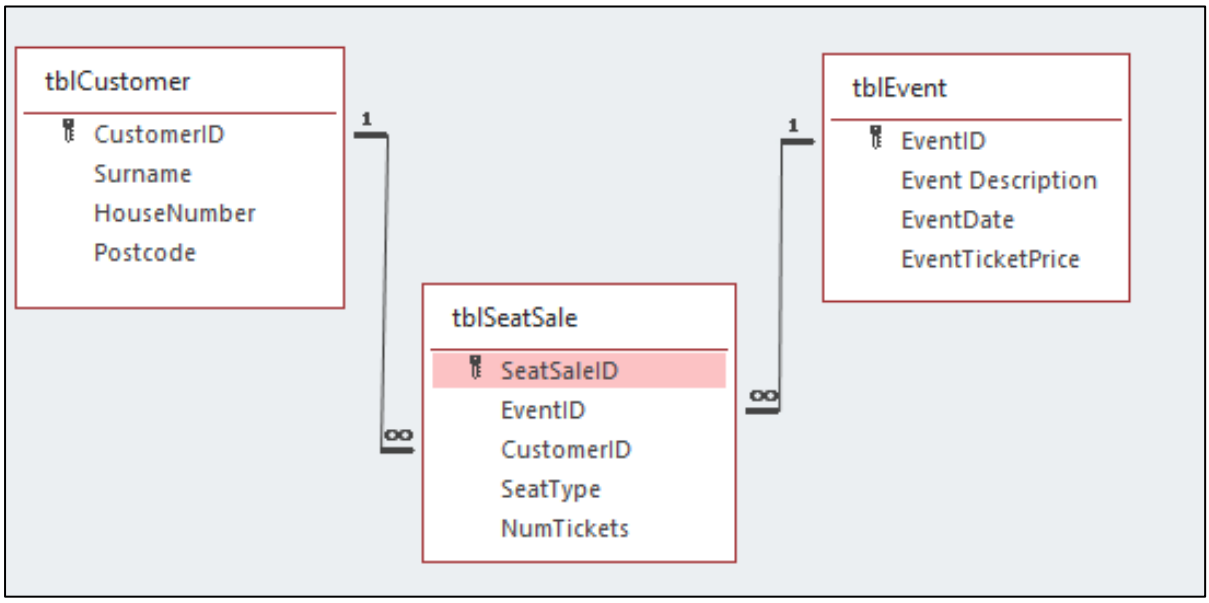
Part A
Example Solution

Contents

Introduction

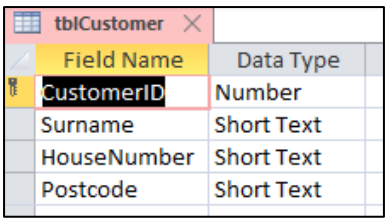
This solution shown is ***one*** example only. It is important to read the guidance with each activity. No assumption is made that a method that differs from the solution shown is incorrect.

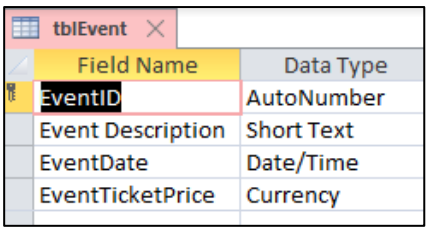
Activity 1 Database Relationship Screenprint



Activity 2 – Table Structures and Validation

Table Structures





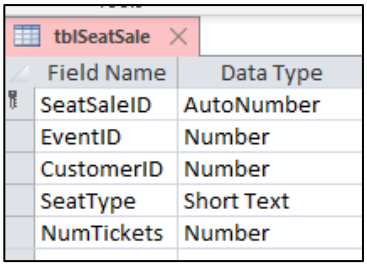
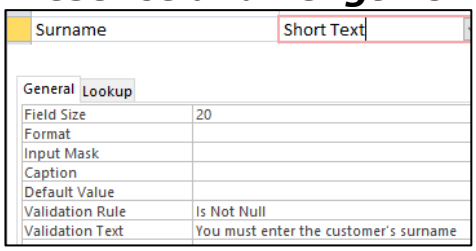


Table Validation

Presence and Length Check



Value Lookup or Range Check

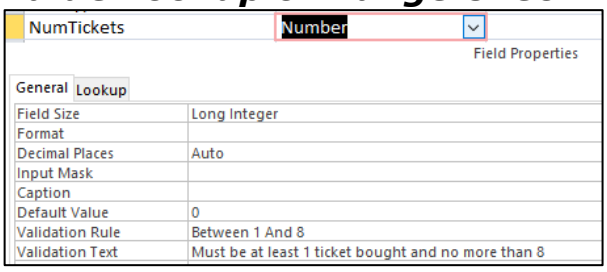
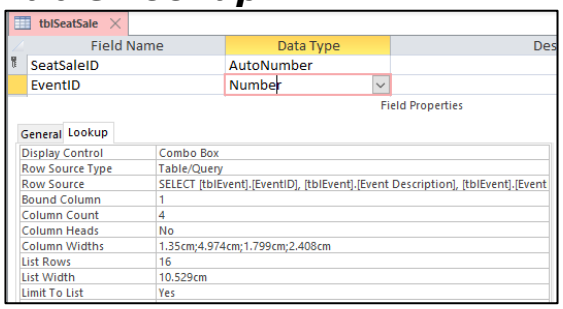
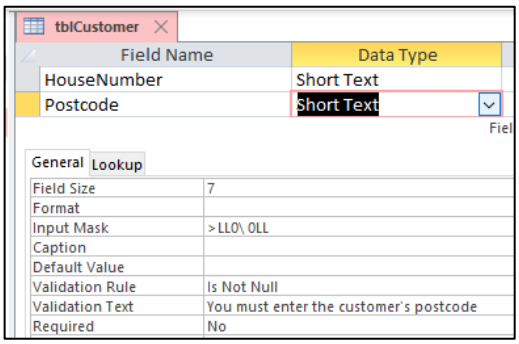


Table Lookup



Format Check

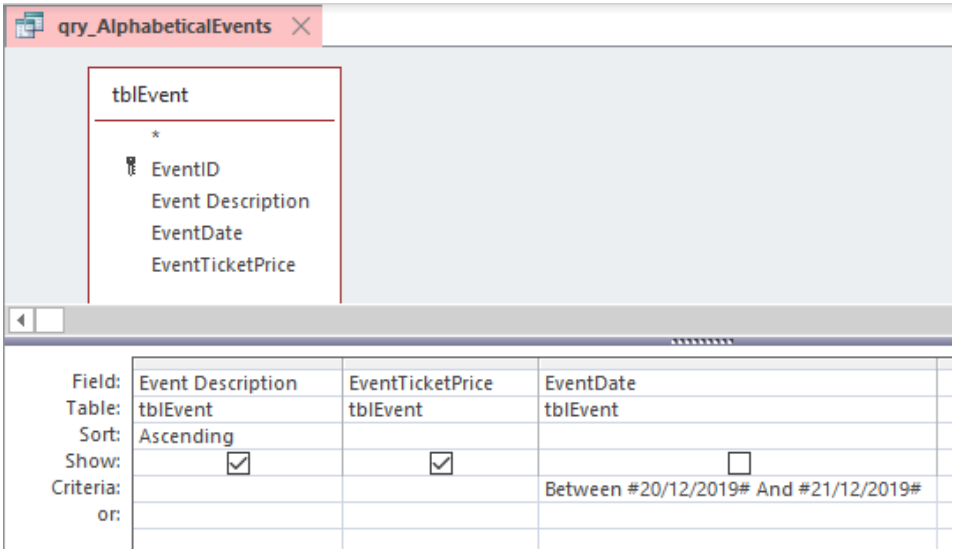


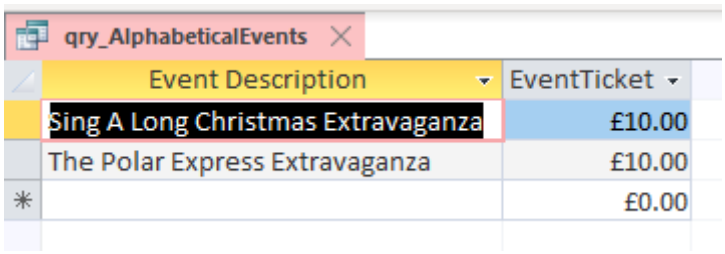
Activity 3

Queries

Query a

Create a query to display an alphabetically sorted list of the events running on the 20th and 21st of December. It must show event description and event ticket price only.





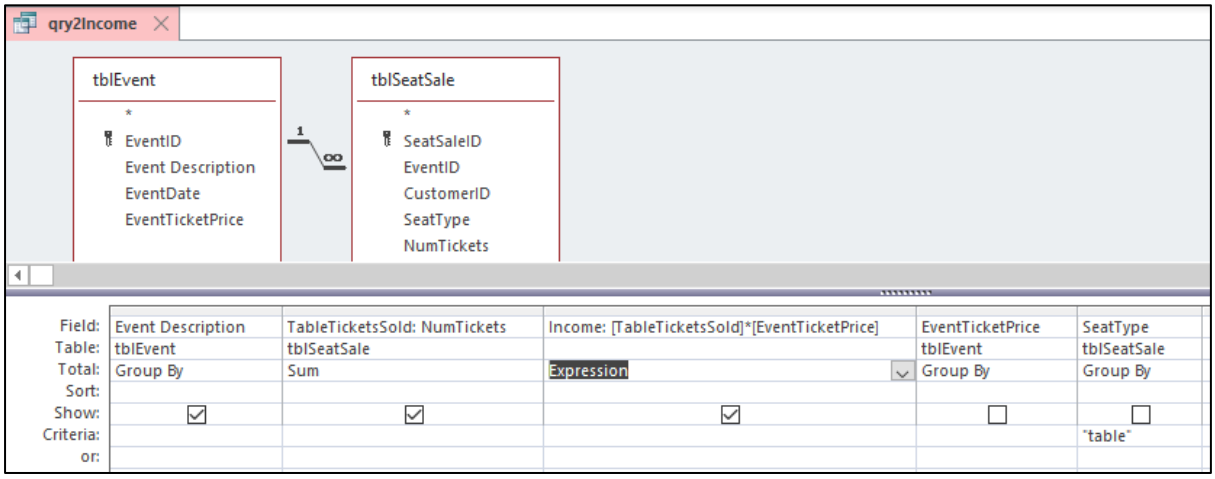
Query b

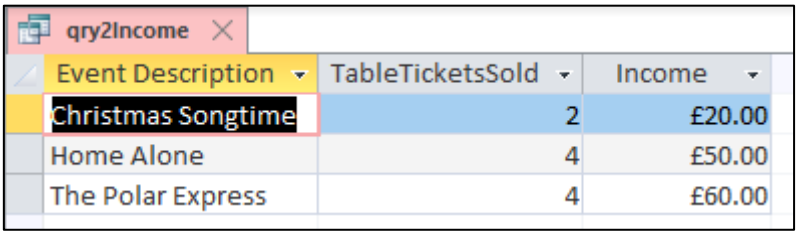
Create a query that will calculate:

- the number of table tickets sold
- the income the tickets sold would generate.

Display:

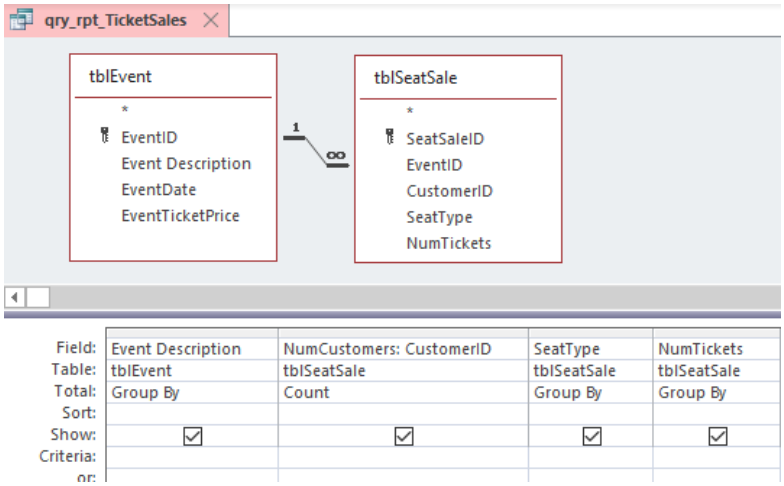
- the event description
- the number of table seat tickets sold
- the income generated.

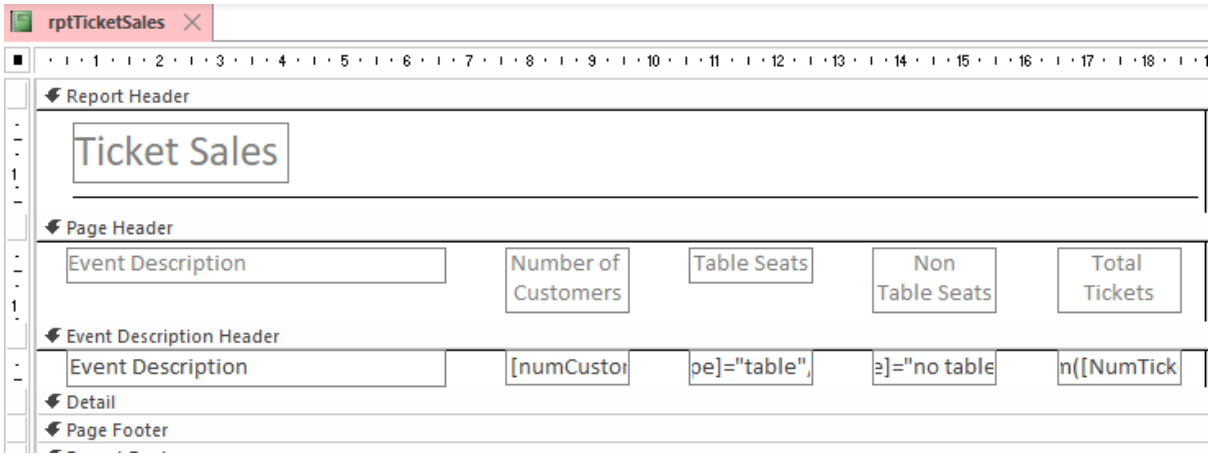




Report

Example 1





Calculation for table seats

```
=Sum(IIf([seattype]="table",[numtickets],0))
```

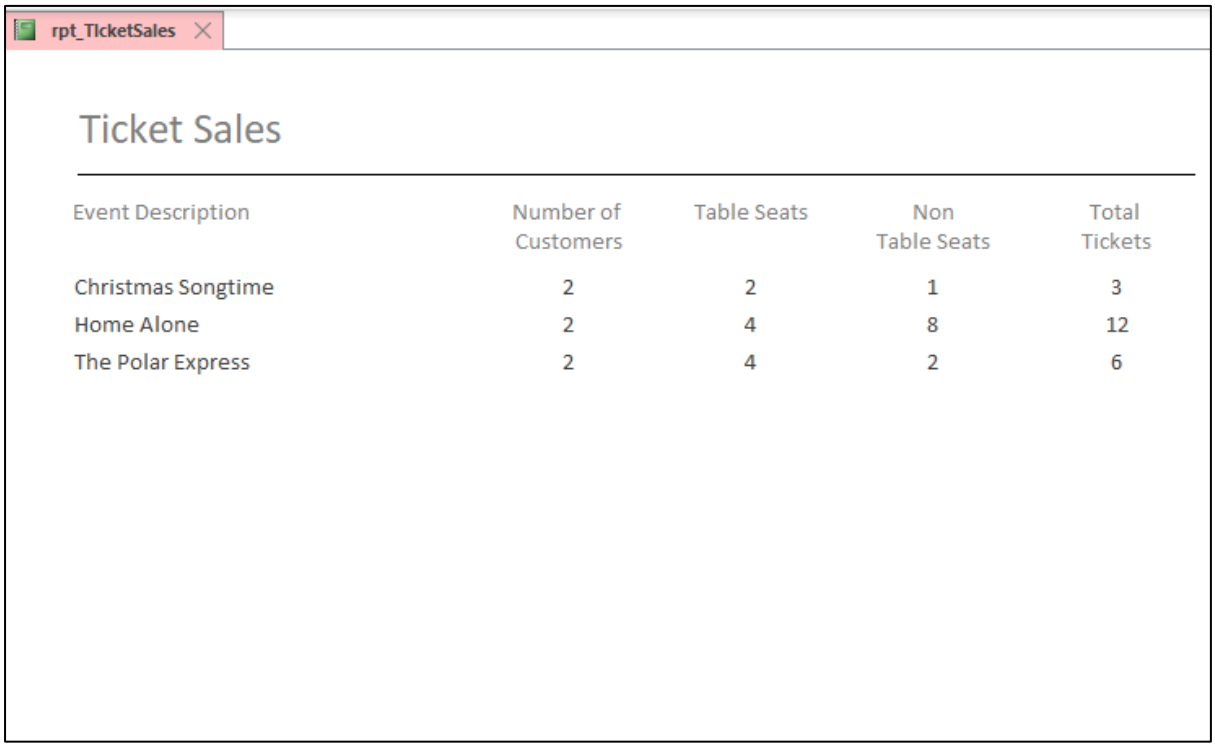
Calculation for no table seats

```
=Sum(IIf([seattype]="no table",[numtickets],0))
```

Calculation for total tickets

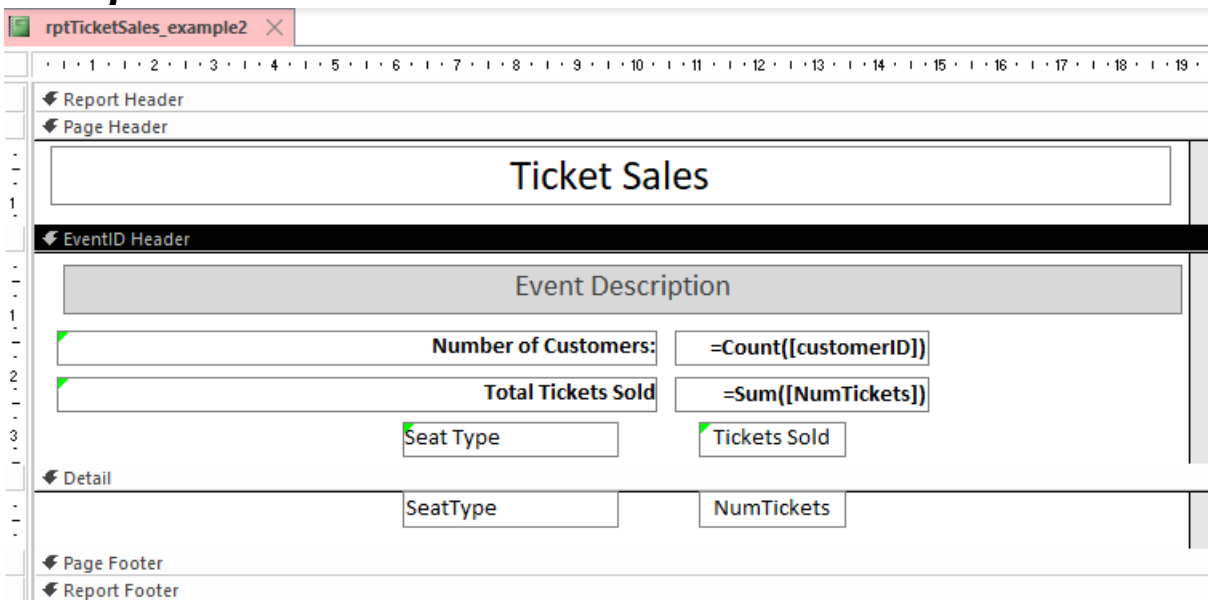
```
=Sum([NumTickets])
```

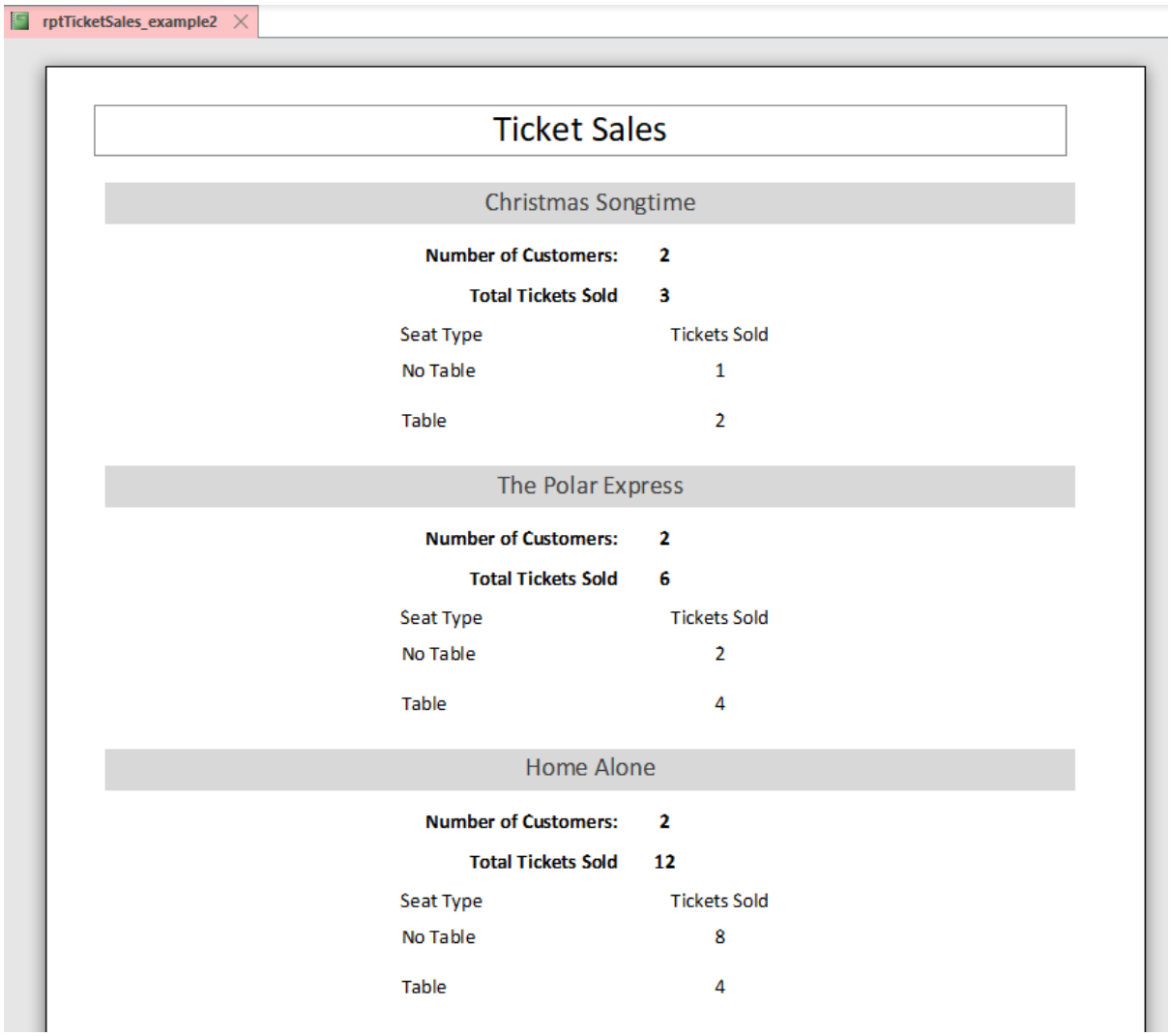
Many different ways to achieve. Could use grouping on Event Description etc. Any method that shows what we want is valid.



Presentation of report cannot be marked from screenprint. Need to see actual report. Report here for illustration purposes only.

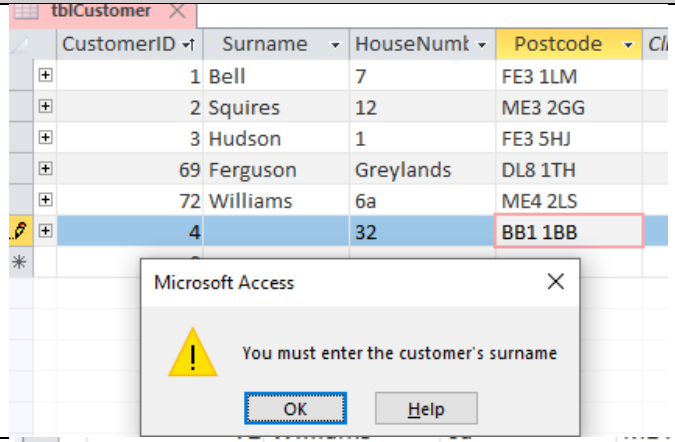
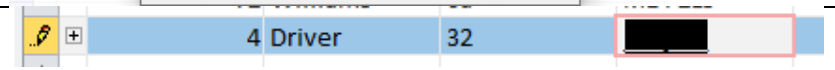
Example 2

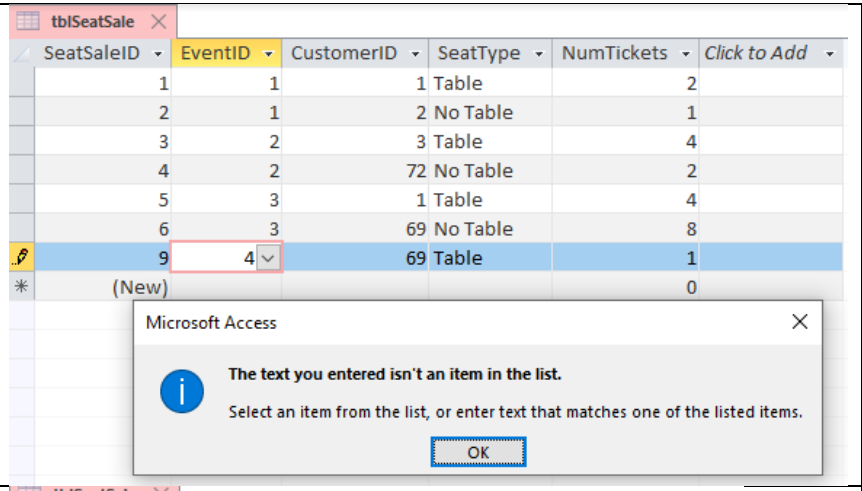
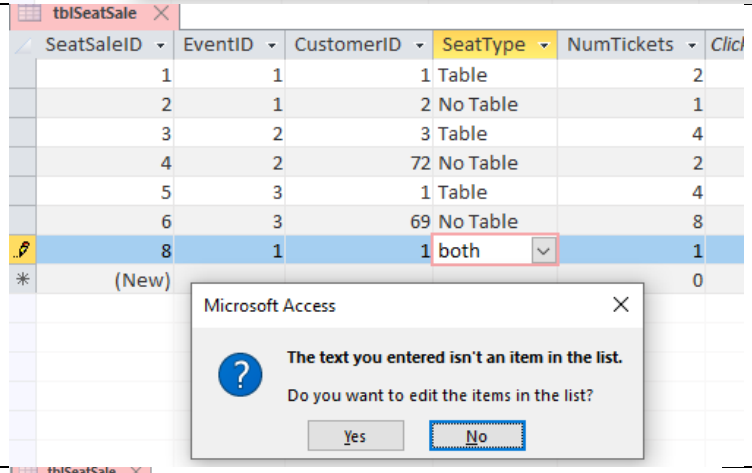
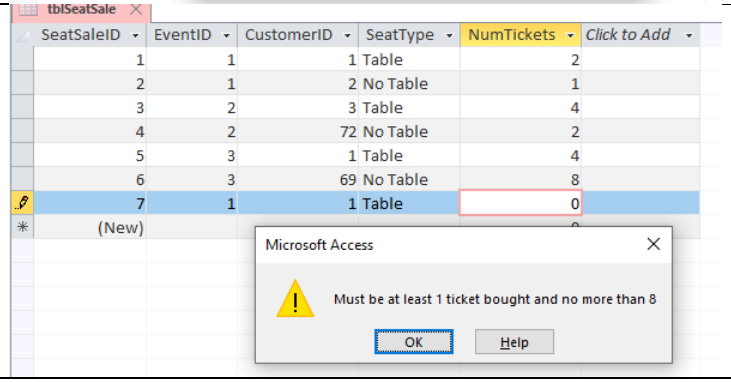

rptTicketSales_example2
Report Header
Page Header
Ticket Sales
EventID Header
Event Description
Number of Customers:
=Count([customerID])
Total Tickets Sold
=Sum([NumTickets])
Seat Type
Tickets Sold
Detail
SeatType
NumTickets
Page Footer
Report Footer

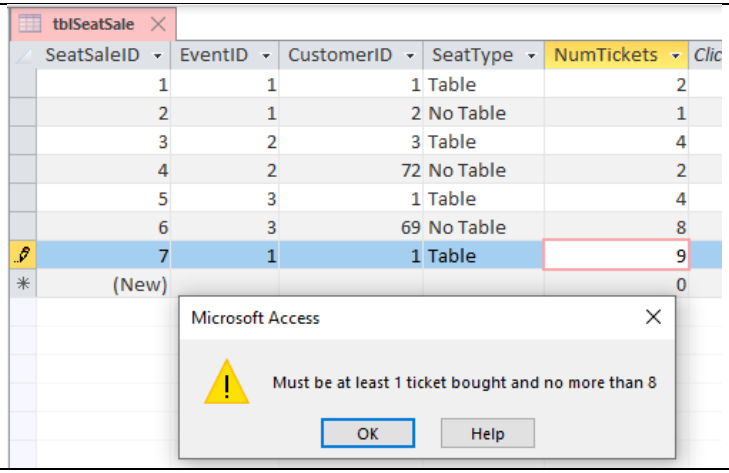

rptTicketSales_example2
Ticket Sales
Christmas Songtime
Number of Customers: 2
Total Tickets Sold 3
Seat Type Tickets Sold
No Table 1
Table 2
The Polar Express
Number of Customers: 2
Total Tickets Sold 6
Seat Type Tickets Sold
No Table 2
Table 4
Home Alone
Number of Customers: 2
Total Tickets Sold 12
Seat Type Tickets Sold
No Table 8
Table 4

Activity 4 - Testing

Screenprints may be on the small side here. Learners can put the screenshots after the table or use A3.

Test No	*type test*	*Add suitable test data*	*Add the results you would expect to get from a fully working system*	*Add screenprint(s) of the results of this test carried out on your database.* *Ensure you show the test data used in the screenprint(s)*	*Only complete this column if the results are not as expected* • *Explain the error* *If you correct the error explain how you have done it including a screenprint*
1	R	CustomerID:4 Surname: blank HouseNumber:32 Postcode: BB1 1BB	An error message telling the user the surname is required		
2	R	CustomerID:4 Surname:Driver HouseNumber:32 Postcode 11B B11	No error message but the user will not be able to add a character where a number should be or a number where a character should be. The character will not be input		

3	X	SeatSaleID:Autonumber EventID:4 CustomerID:69 SeatType: Table NumTickets:1	Error message saying they must select an item from the list.		
4	R	SeatSaleID:Autonumber EventID:1 CustomerID:1 SeatType:both NumTickets:1	Error message saying they must select an item from the list.		
5	X	SeatSaleID:Autonumber EventID:1 CustomerID:1 SeatType:Table NumTickets:0	Error message telling the user the input has to be between 1 and 8		

6	X	SeatSaleID:Autonumber EventID:1 CustomerID:1 SeatType:Table NumTickets:9	Error message telling the user the input has to be between 1 and 8		

Activity 5 – Evaluation

No evaluation example included as these can end up becoming the 'only way' candidates evidence this activity.